

SCIENCE 10 PHYSICS FORMULA SHEET

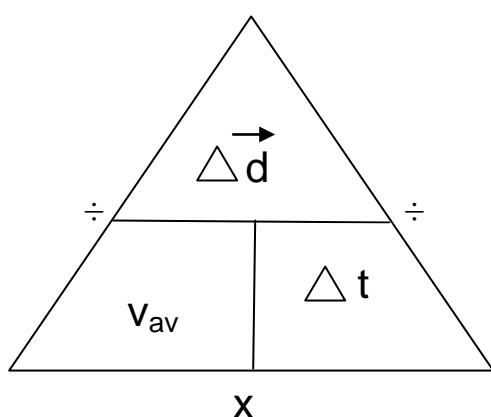
Quantity	Symbol	Unit
Distance (scalar)	d	m, km
Displacement (vector)	$\vec{\Delta d}$	m, km
Time (scalar)	t	s, h
Speed (scalar)	v	m/s, km/h
Velocity (vector)	\vec{v}	m/s, km/h
Acceleration (vector)	a	m/s^2

Motion Equations:

1. Displacement ($\vec{\Delta d}$) = final position (d_f) - initial position (d_i)

2. time interval (Δt) = final time (t_f) – initial time (t_i)

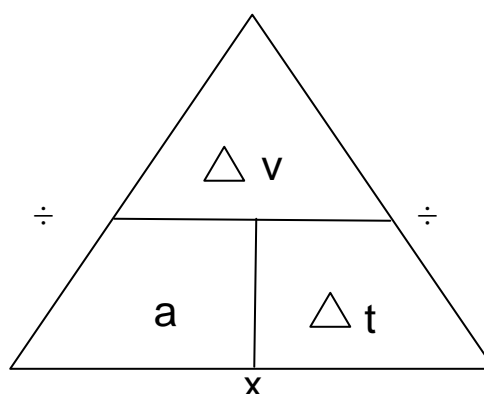
3.



v_{av} = average velocity Δd = displacement Δt = time interval

4. change in velocity (Δv) = final velocity (v_f) – initial velocity (v_i)

5.



a = acceleration Δv = change in velocity Δt = time interval